


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MISSOURI 10 BOTANICAL copyright reserved cm GARDEN

GEORGE ENGELMANN PAPERS MISSORIRI BOTANICAL CARDEN A.3. Fr. 1826 Creta, Afric. Cor. MISSOURI BOTANICAL

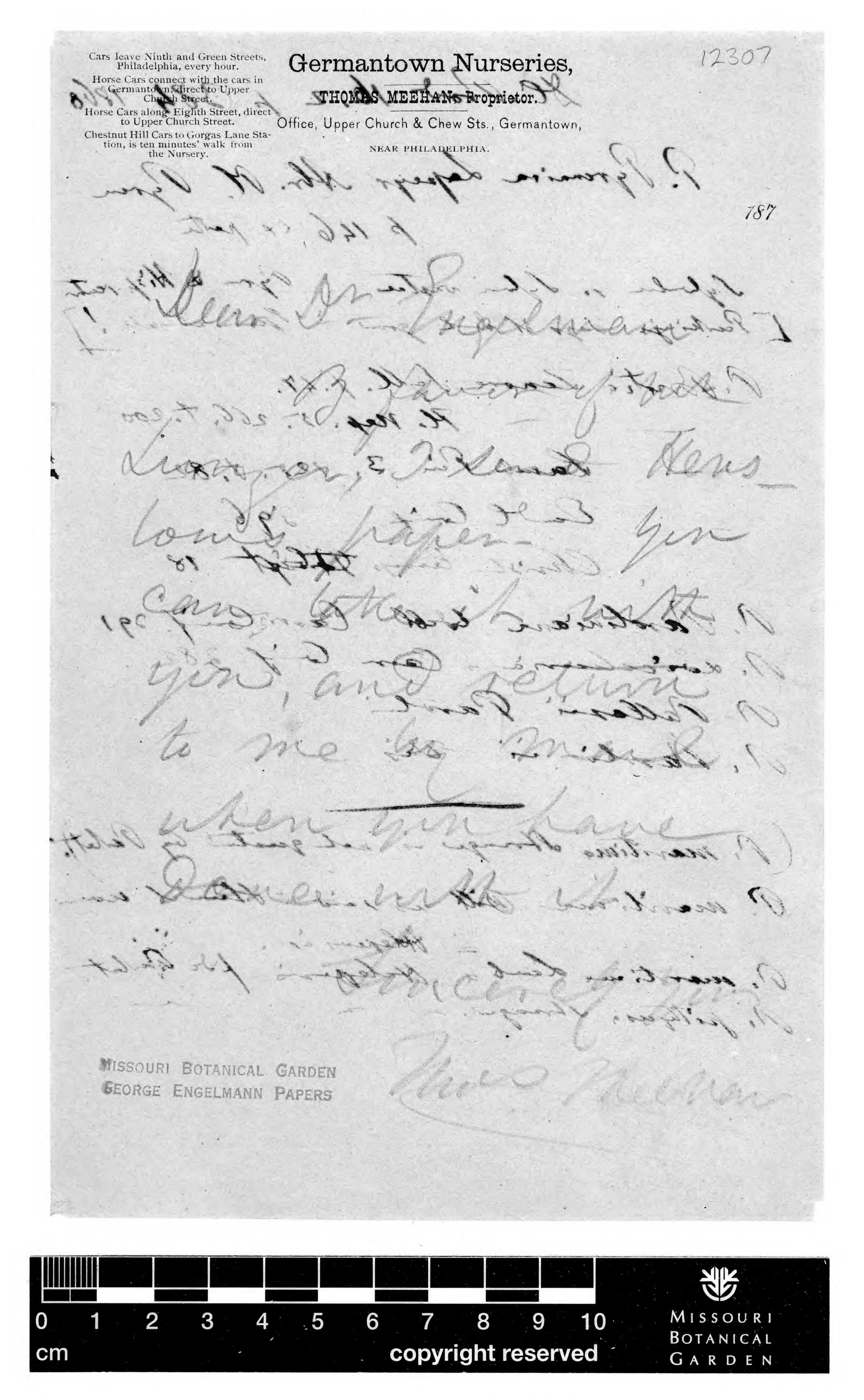
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A TOTAL MERCHANIS DINES DINES STEEL STEELS Philadelphia, oversy hour. Office, Upper Church & Chew Sts., Germantown to Upper Church Street. different Hill Care but intgus Laure sita-TION, IS LED BURNIES Walls ITIME Sylvele i Sylve vister i Gran & Hisporethe I Parkings sign it shall grow i Special about 17 P. Britia Zenore Syll. 1.47.

Pl. nep. 5-266. 7.200 Lamb 1'in 3. 120. t. 82 220 Caix 396 Christ lemp Theigh 18 A. Resolinian Well Carris Conif. 391 A. Korice German Cam Oil 382 A. Palleri Paroli A. Parli-i - Zi P. maritima Stronge i net queto by Partet. P. mavilian kill is said - Hurt nom. a. maritime dans = Helegeris for Bilet. A. pitheus, Shrager.

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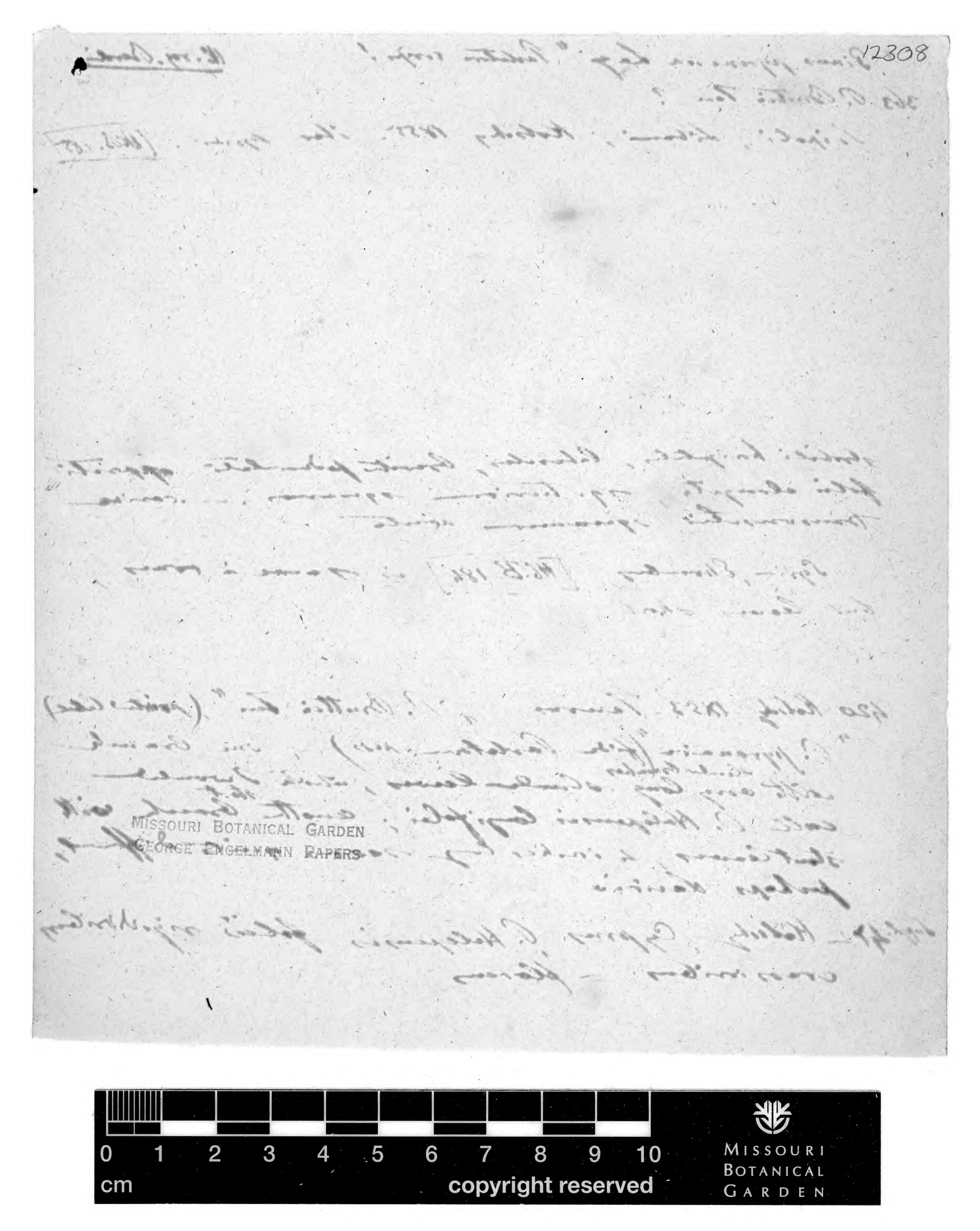


" Jines pyrenein Lage "Parletone sompe." M. ry. Busie 363 O. Britis Z. ? Tripoli, Libani, Kotschy 1855. iler 1955. [Hes. 185] strike horizales, laterales, Brevite ped let. apprints foli elongete, og tomon sjemmer Amerika spename acente -----Syri-, Ehreby [H6.B. 184] is ----but leaves short Ho Berlin 1869 420 Koliky 1853 Tauras " P. Brutter Ten" (printe less) Of pyremain (fich lastatom . 115); one branches with ony long scale lives, which I would with call O. Halepensis longifile; anoth branch with statlemen, 4 insker by seems quite differt, pulaps danies 14/12 Holing Cypnes O. Helegins folis ngillonly

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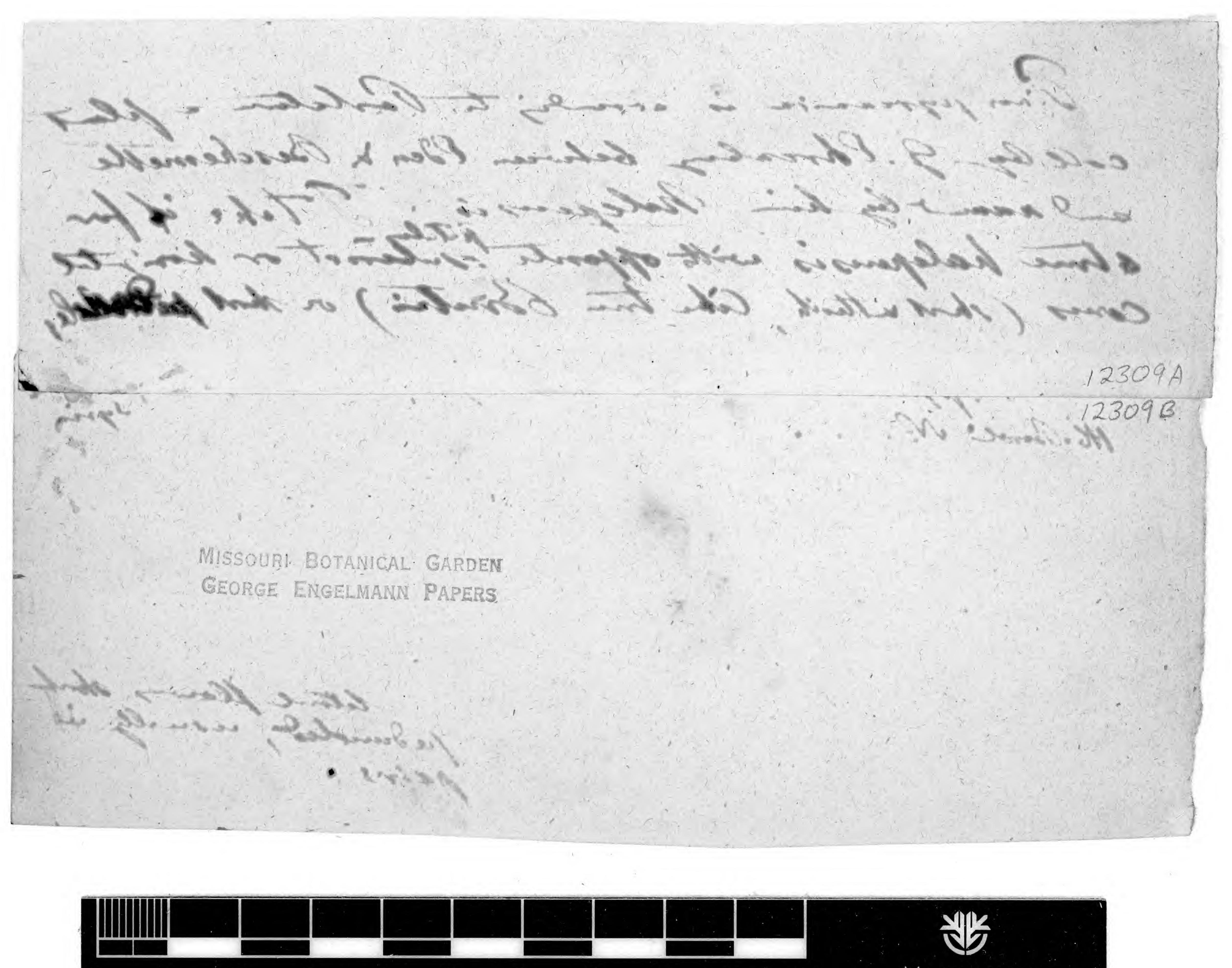
GARDEN

cm



Herb reg Borling June 1869 Jim pyramia is armely to Partition - play college g. Phronly between Pden & Beschemette Snambly him Molegens is The if for struct or how; the comes (that attack Cite time Bruthing) or had petroly H. Book N. ... Syrin fædunded, usulle II







"Times Pines" Costel movo, Eleventer, Hor Myr. Solmet.

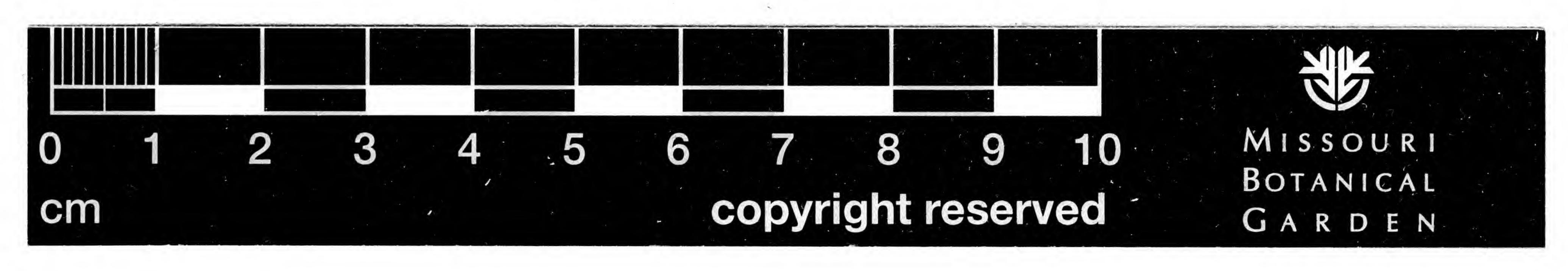
is a start branch with many branchlet, play a sheet many branchlet, play a sheet many franches, point, only for seconding laws, form 1.24

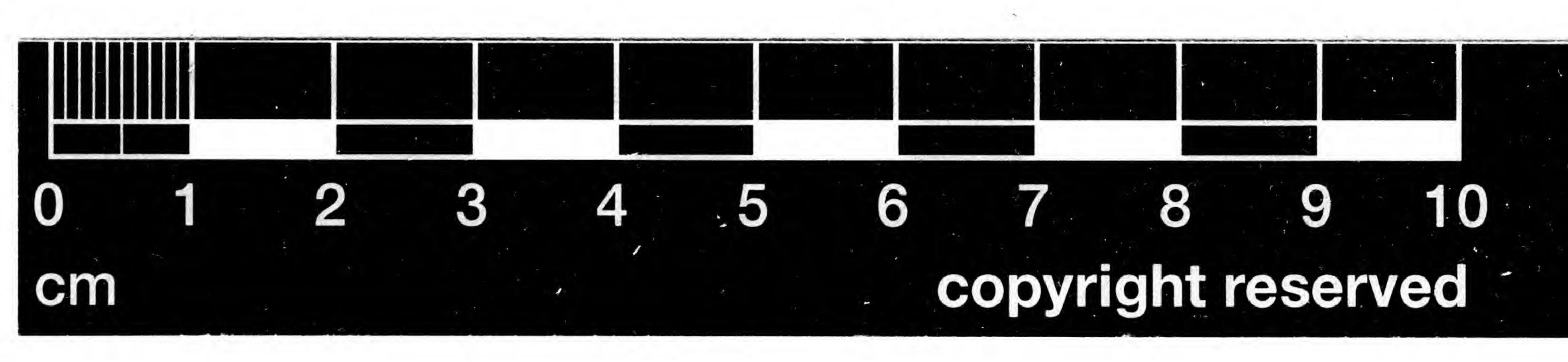






Loudon Ab. x Fut. Aritan. ed 2. vol 4. 1844 p. 2226 x 2227. .... Dinus Pinca 1.2226 : They form a fruit which is Three years Coffer it sipens p. 2227 . a. and ch last, about The end of the Third year, they allawis Makerily. p. 2228. Hing prises the Stone fine for bearing fruit in three stages of its growth at the same lime.







P. Halepani, stat maxim tabandos; petite Kalylin, Constantine





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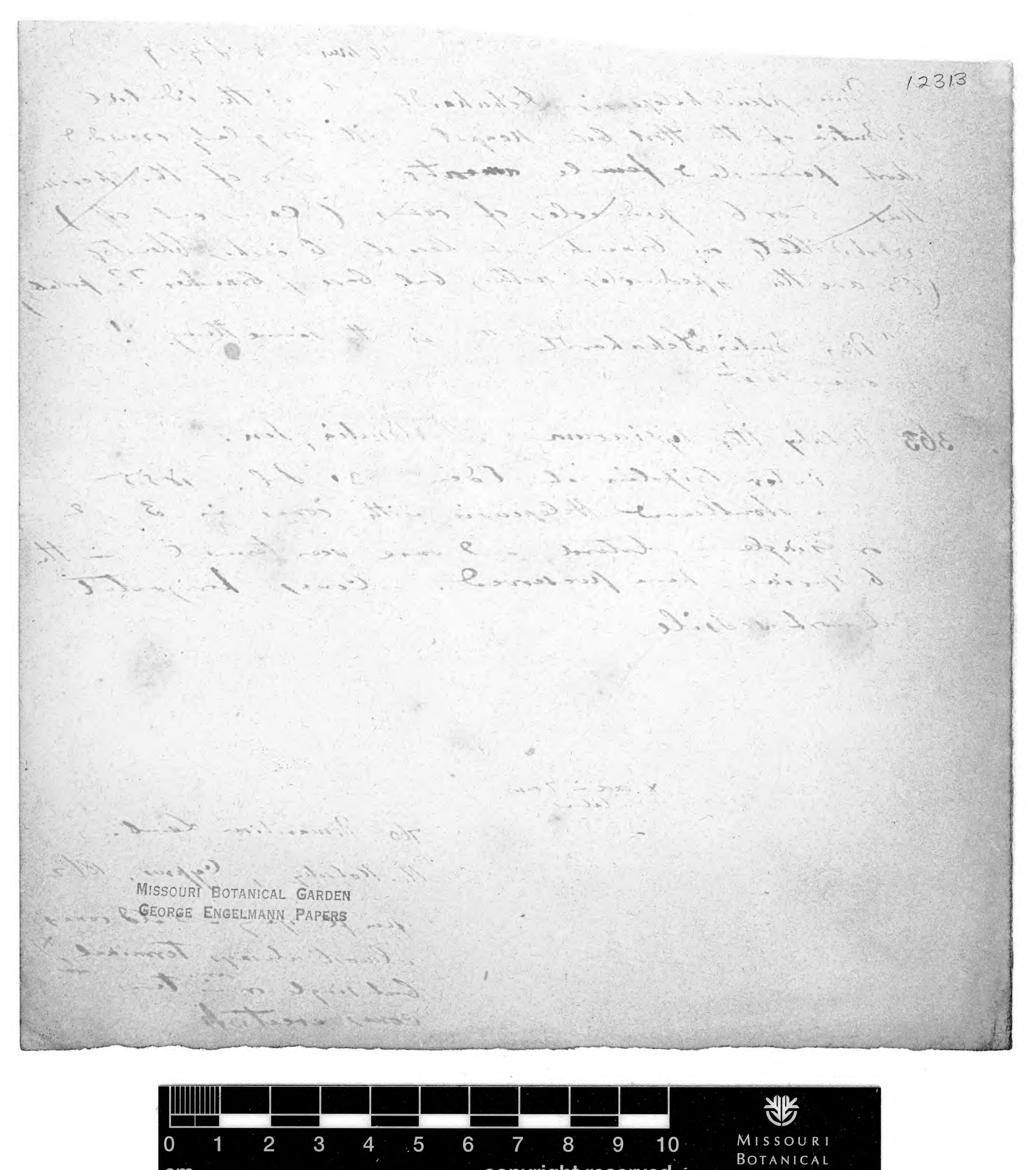




He Mus 25206. Leg 1869 " Times pseudoholepeasis, Dehnhardt " is the idulatel O. Butia of the Host box neapol. with irregularly rows Is short permile famile aments. Out of the Kering with that on branch of least 6 inches blocks ?? prology is the same they " Pian Smilis Schakart " another sheet 368 Kotnby iter Syriarum O. OSmitia, Jen. i Ter Tripolin et Pden 3. del. 1855 is a stoubleward Alepensis with romes in 3, 2 or single - letterel and once seen termine in the 6 sporte here preserved. Comes konizontet almost subsile 760. P. man Lime Land. 74. Kolsely, Cypnus. 1862 fem fl. you - eld comes almost always Terminal," but single on the com ereitist. MISSOURI BOTANICAL

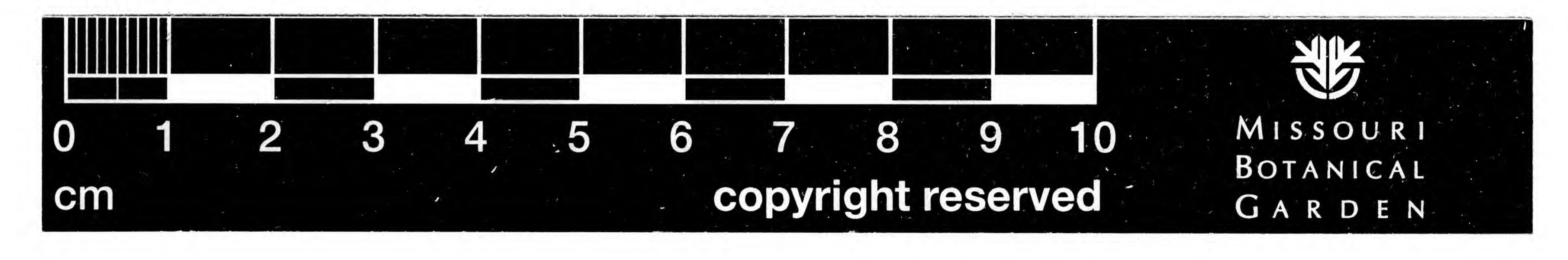
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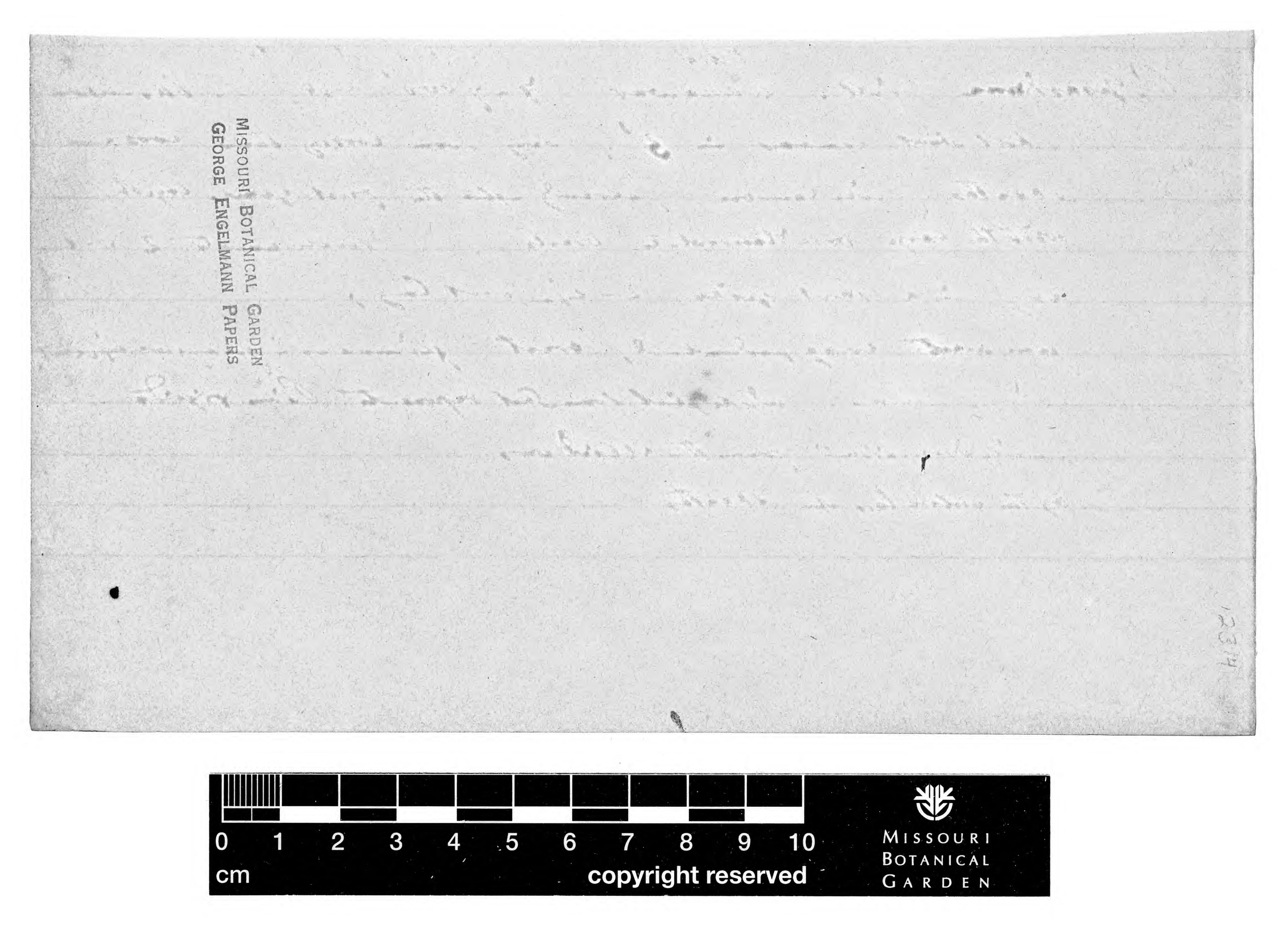
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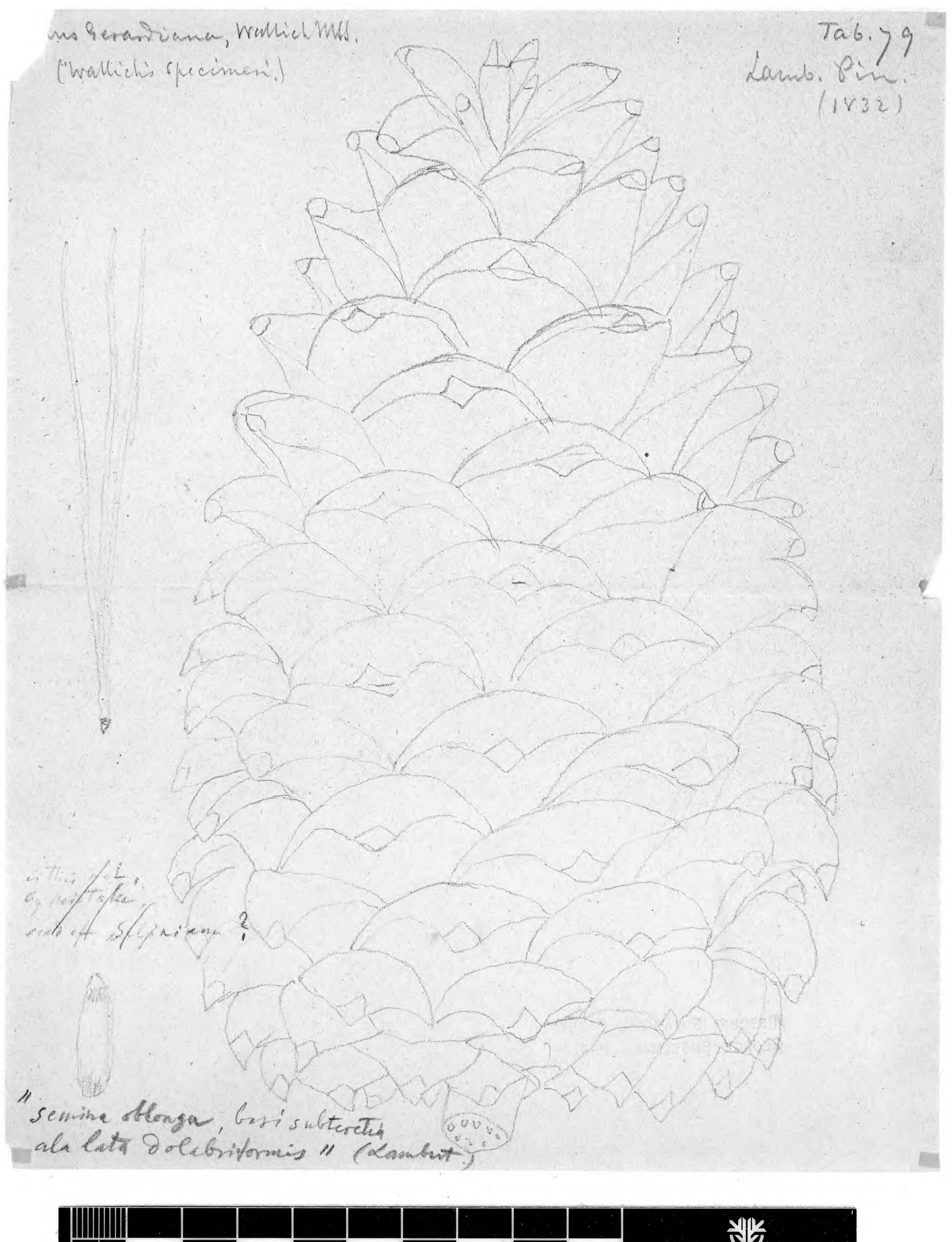




O. Genardana Well. Kanawar, 7-9000 hgh, T. Thomson short start leaves in 3, very soon loosing their loose. Thather (like Cambon), already after the first year, togethe with the land browned to break break and 2 me log i a skal spike, 2-2/2 out log, fen ants long peled, overt pedenle for ynng out part cordinally lettered. While plant some Set represents The origing. For Enily Sitistical from the allies on by the autite to, of thethe









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## Hert Ken dept 6 1869

P. longificio Aglikkin Hosh - leaves 22-25 one huk, 8-2 and in Grant punts as and a leaves - apparently only through the server year. Though forming hughs at and of Branchs - special sterile

Canthe special from same region has leaves only 10 and by shoots De- a 2.2 and - comes Apriral 4-5 and by only very Radly, Kuls forming a 4 angular pyramid, lower ones reserved

anothe sterile of. for our region has leave, 35 or lay.

Author 16-17 mm. leaves 60,6 miles and it.

Nagles sperimen.

A generation, Well, C. 6064 thinly, is In plan here with by plice

The sperimen for Sikkin, Howher, has made fl. - and about

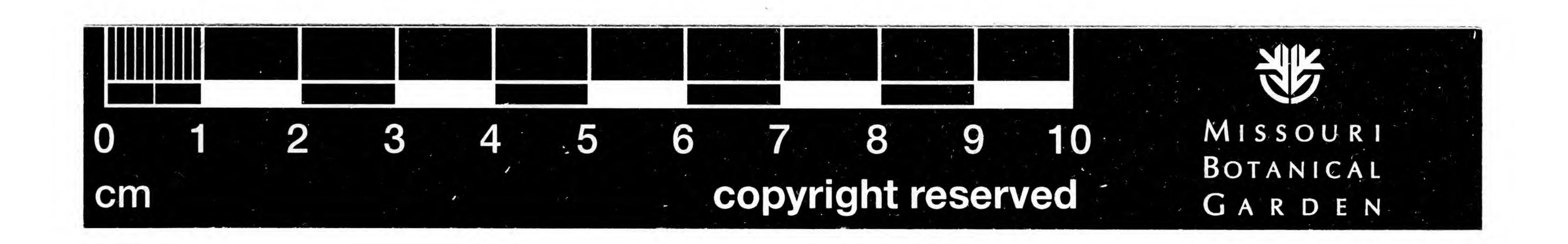
20 miles - and forming. large head 5 mile long of theth.

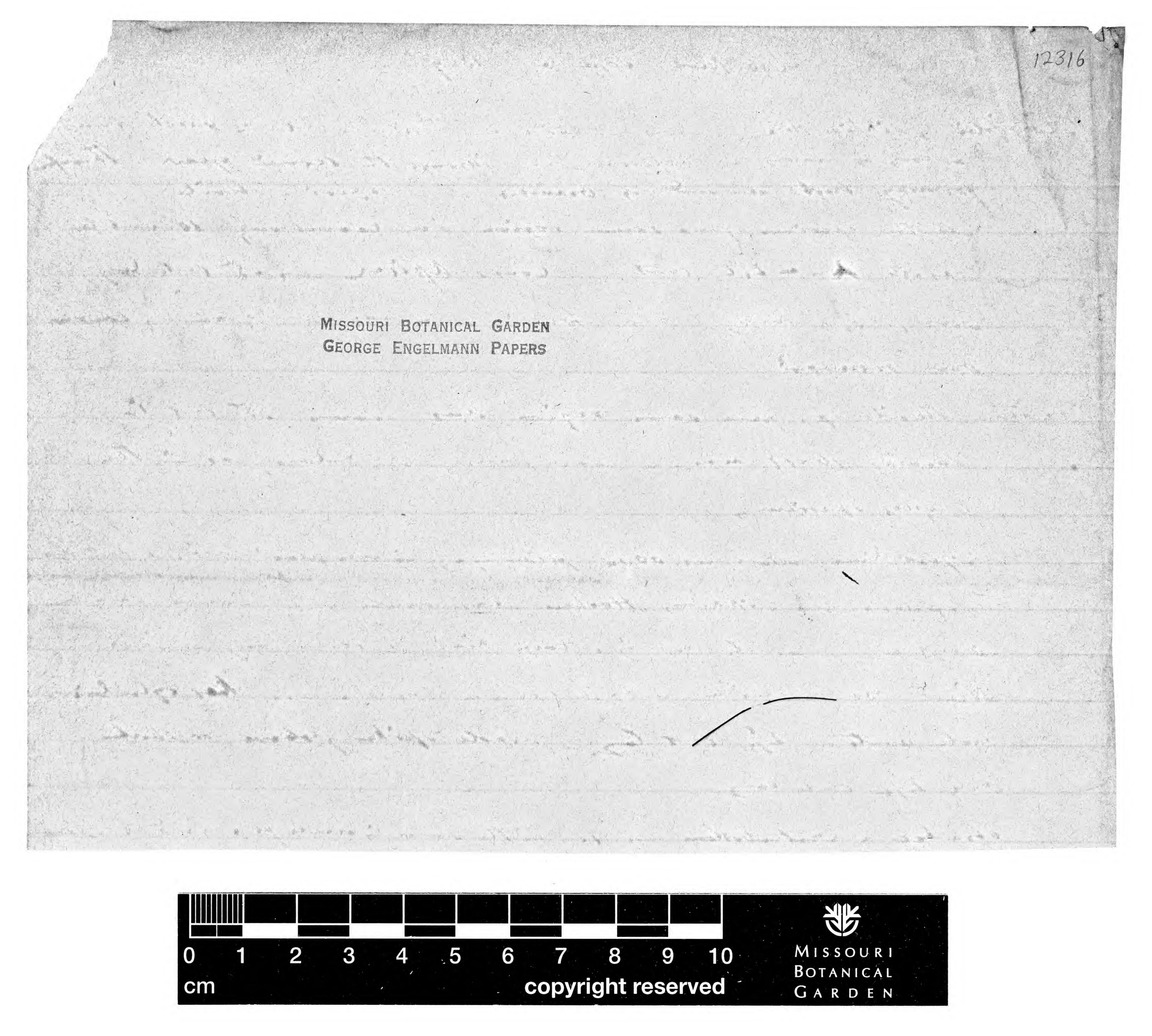
Nepul 6065 Wellich, will the name of largefolis Royb. May oglich:

made auto, 2/2 miles for a Shole spike (yokan, on) short,

only 2/2 cut long.

Showhey a vinitabetton No 1. is the same include, head to clony





May Adding com has been by outering P. Marya 



Mr. & Mrs. George C. Fabian,
request your company
at the marriage of their daughter

Charie
Eugene C. Tittmann!

Wednesday Evening, September 25th 1878,
at their residence No Mo Dillon Street

at 8% O'clock,

H. Souis.

MISSOURI BOTANICAL GARDEN

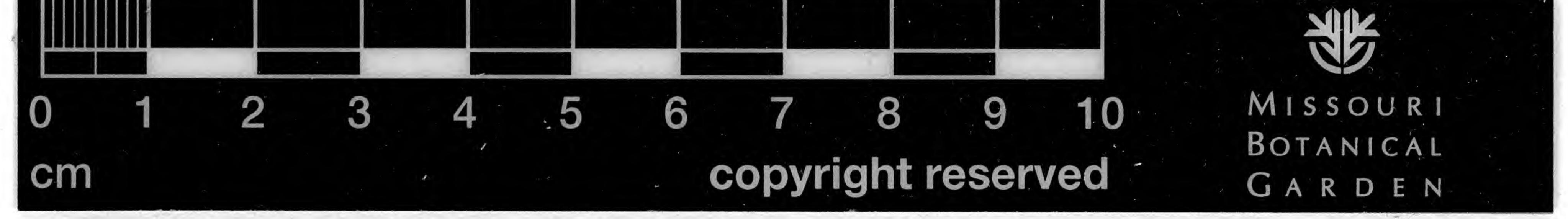




Ho. Mus Wilds. a & shaply, sometime, remotely a sum indistring sented leaves;







The special from the Amount Maxin. label a.

D. Cembra var famila. Poll has long and slender

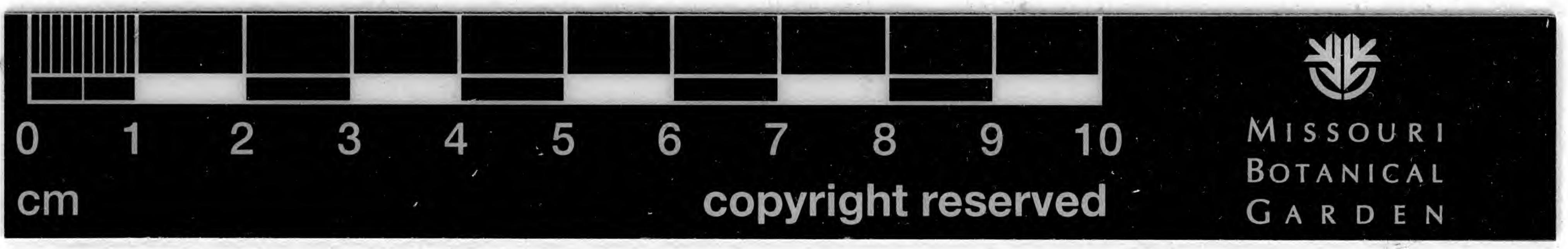
and apparently entire leaving

D. parviflor of his sum to slend leave, A. L. I'd sente

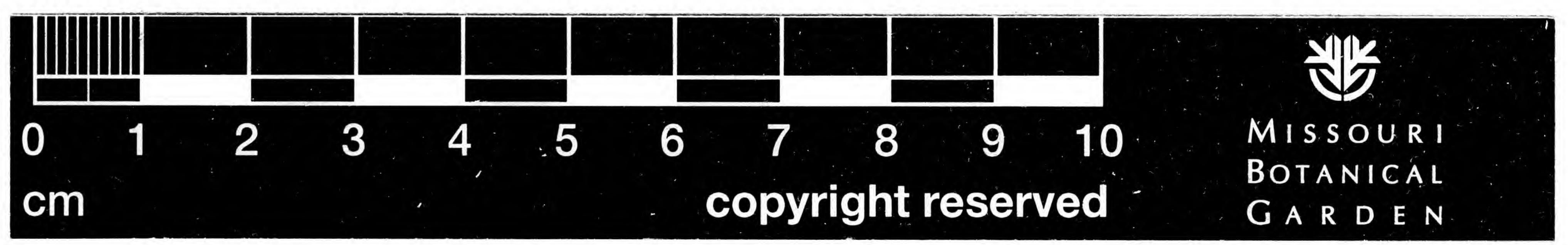
176 Min Vindob. July 22 1879



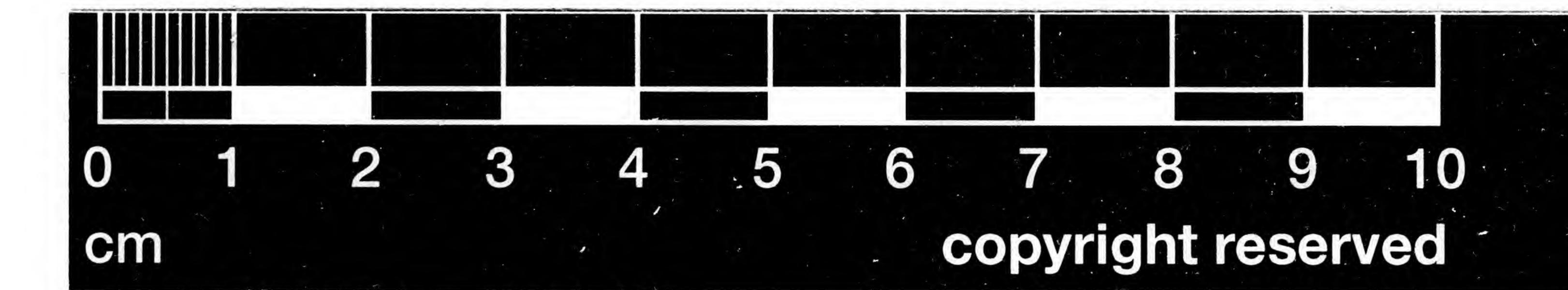




Holl Got Mapol. Jan J 1869 you shoots often with 3 leaves Pinces Maderensis -Skot Siferent from Thave also freed 3 leans M. Maa in Strik but very nave. Both have terminal few. Amen's and com, but are distingwished from the other sp. of Pines, by ripening them the 3 - year only The young fruit of the spring of 1868 is now about six like in Sameter. that of the Janas of 1867 about 13 lines and that of 1866 only i now fall grown and rife ! Enes i both somewhat persistent waderensis maderensis min young floods of May 1868 long 7" 18" 18 12 " 18 12" 15/2

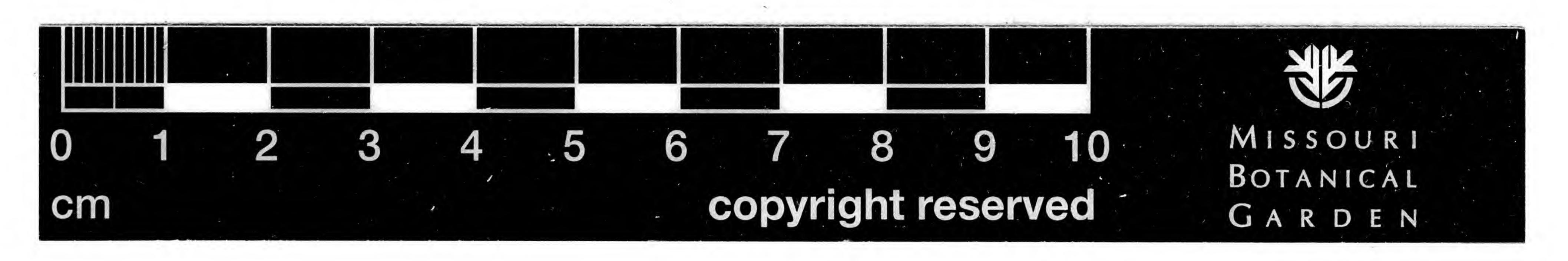


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MISSOURI BOTANICAL GARDEN

Auro Kas. Lept 6.7'1869 308 Pinns puriffon? Lypun, olohan 1861-65 \_ inblog to 1862-65 \_ inblog to 1862-65 \_ witt gog sessile aprile fruitmy te comme, but lever seem sum pointes

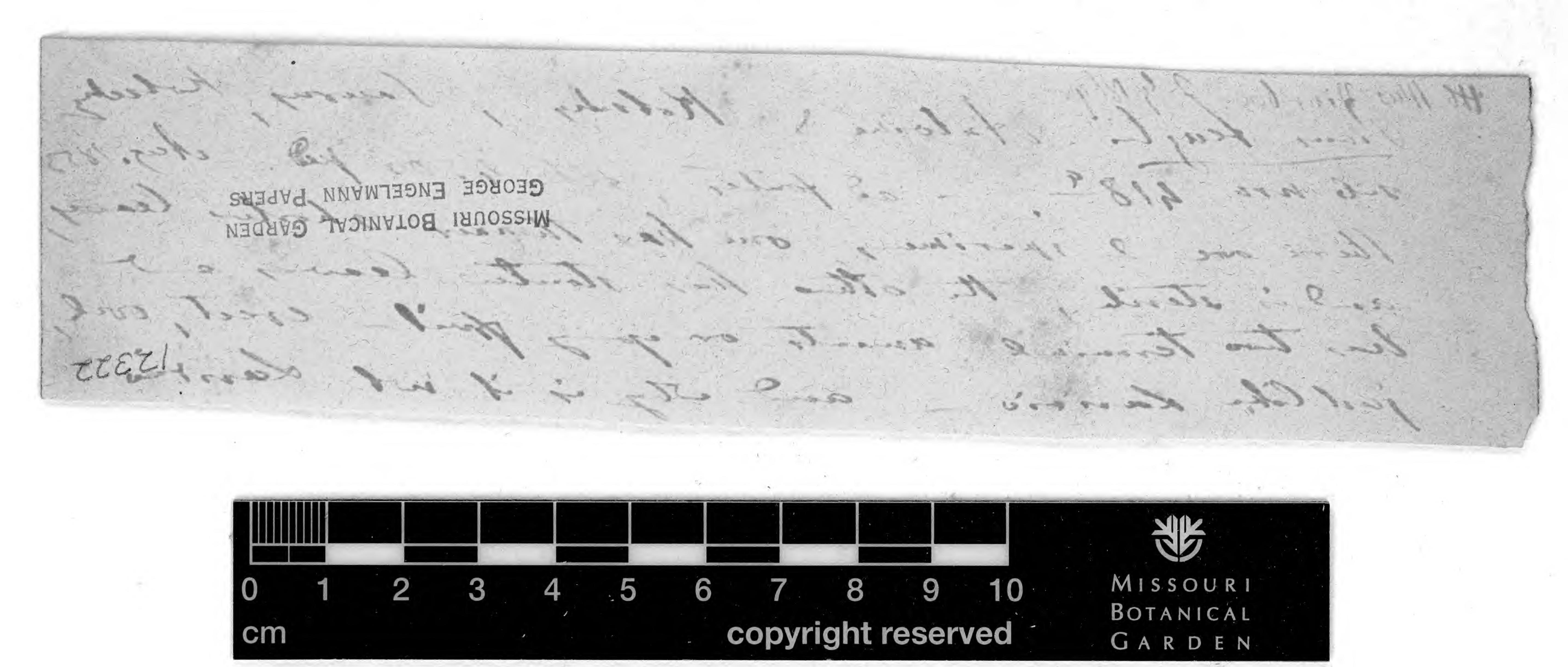


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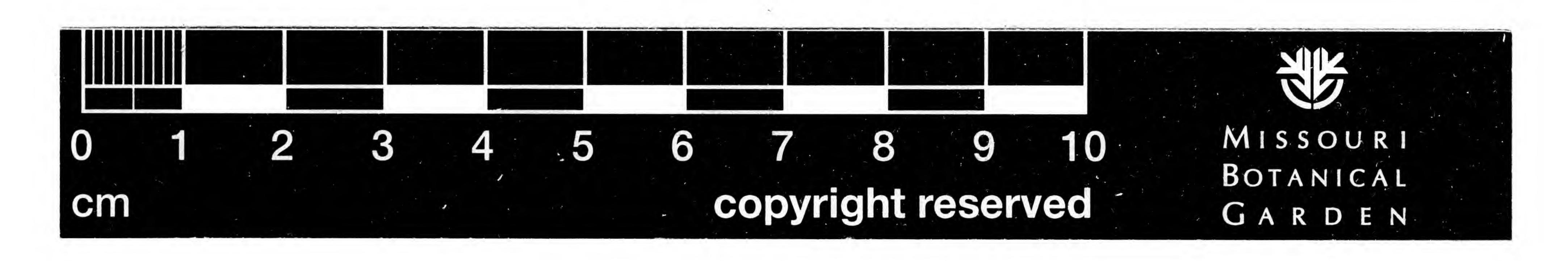


the Mus Hindston July 1869 Vines Lengthis Antoine & Motherly, Jauring Kolechy sul mra 418 - ad forter, ell 4500 jed - etry. 1853 There are 2 sperimen, one has thinner shorter leavy and is stend, the other has stouter leaves en her two termine aments or your pril - event, ovel just like Lawinio - and sty is it wil Lawinio

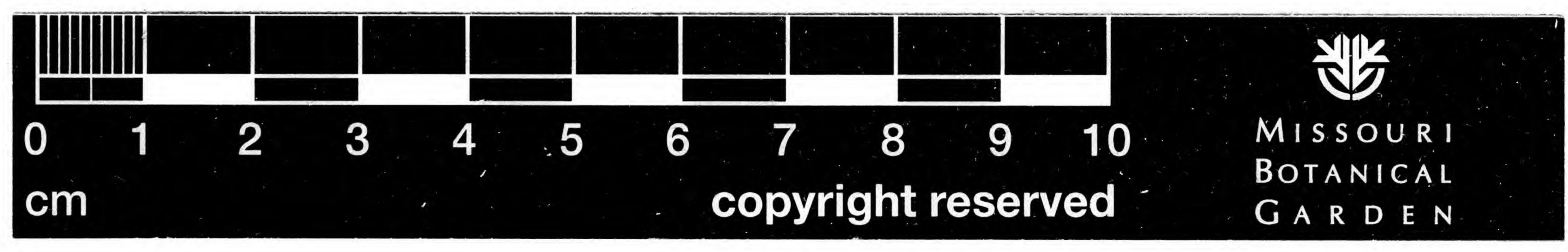




Pinus Brutia of trus in Garden are Diseased, overfall of vesin; axles ef male syllower, does not continue to grow, but the whole whether of female amente crowded on the end of the trunches and very frequently not further developed, so that smile (size of hughant,) dead amont of severil years standing are found about the older Granches Jany famile aments -12-15 fle once 25 found i me claup. Comes persistent after meturity To be git exación, where the optient thelongs







Male Aments of They Austrana (Sinaster, Schway: føhre - Lee Orann Blattstelling, tot XVII. J. 2. Hor Cone) Host Out Missour. May 11, 1863 - not get open, show beautifully the phyllotactic arrangement of the authors. 17-18 straight lines (Jeilen) are formed on the cylin part of the ament; getting original where it becomes comit. If I shall one way, 9 an other way and 17 strappet ones in some of the amen't , which is exactly the arranged Symmet og Osram, Blattstelly, t. 28. f. f i the infloreger of Sankring fenemorsa: 17 dec abid p. 141-143. a very Common occurrence in aments of Salix . - Thur Selip cinevea ertt 15.16.17.18.19 jurpenterlen lines - 2 1 2 17 19 ; 19 anagent. He sam anagut i avoids, fem sprikes of Carex. Troposin (esperally L. clavatur) Camania, Buksia Male anants of Times montana have Za annuguar. de 16.9 p. 133. I find 16.17. 18 and 20 stright lines in the amend of C. austrian - Which would be \$17, 9 and to arrangement it stript with 8 and 8 spiril lines , i ample g " 9



the second secon MISSOURI BOTANICAE GARDEN GEORGE ENGELMANN PAPERS MISSOURI

BOTANICAL

GARDEN